

REMARKS

Applicants respectfully request reconsideration of this application as amended. Claims 1, 2, 4, 6, 8, 12, 14, 15, 17, 19, 21, 25, 27, 29 and 31-34 are pending in the application. Claims 1, 2, 4, 6, 8, 12, 14, 15, 17, 19, 21, 25, and 34 have been amended. Claim 33 has been cancelled. Claims 35-38 have been added.

Claims 2, 4, 6, 17 and 19 are objected to because of informalities. Applicant has amended claims 6 and 19 to correct informalities. Applicant respectfully requests the Examiner withdraw the objection.

The Examiner rejected claims 1, 2, 4, 6, 8, 12, 25, 27, 29 and 31-34 under 35 U.S.C. § 101 because the claimed invention is directed to non-statutory subject matter. Applicant has amended the claims to more clearly direct the claims to statutory subject matter. More specifically, the claims are directed to data conversion that is performed as part of a coding and decoding process. Accordingly, Applicant respectfully submits that the rejection under 35 U.S.C. § 101 has been overcome by the amendments and the remarks. Applicant submits that claims 1, 2, 4, 6, 8, 12, 25, 27, 29 and 31-34 as amended are now in condition for allowance and such action is earnestly solicited.

The Examiner rejected claims 1, 2, 4, 6, 8, 14, 15, 17, 19, 21, 27, 29, 33 and 34 under 35 U.S.C. § 102(e) as being anticipated by Bezryadin (U.S. 6,934,411). Applicant reserves the right to swear behind the reference.

Applicant respectfully disagrees with the Examiner.

Claim 1 as amended is as follows:

A method for reversibly converting a data format as part of a coding and decoding process that includes compression, the method comprising:
performing a forward transformation and performing a backward transformation reciprocally on data being transformed between unit systems

having different resolution levels defined by a brightness and a color difference, the forward transformation being performed prior to performing the compression, wherein in the forward transformation and the backward transformation, a first unit system having a lower resolution level is used as a common unit system, and the method further comprising performing a reversible data conversion with use of an integer operation for data in the first unit system and data in a second unit system having a higher resolution level higher than the first unit system, wherein the first unit system is for a first color space and the second unit system is for a second color space that is based on three primary colors of lights, the first color space being different than the second color space, and further wherein determining each component value of one of the first and second color spaces during data conversion in at least one of the forward and backward transformations is based on all of the component values of the other of the first and second color spaces. (emphasis added)

As set forth above, the present invention as claimed performs forward and backward transformations during which a reversible data conversion occurs. As part of the data conversion, each component value of one of the first and second color spaces in at least one of the forward and backward transformations is based on all of the component values of the other of the first and second color spaces. This feature is clearly not shown in Bezryadin.

Bezraydin discloses performing a reversible color conversion on digital image data using integer computer arithmetic. More specifically, Bezryadin discloses converting RGB into Y in a formula of 3 variables to 1 variable, and using fixed formulas in R-G and B-G for variables corresponding to color difference values Cb and Cr. The fixed formulas are shown in Formulas 11.1 and 11.2 Cb and Cr. In contrast, in the present invention as claimed, RGB is converted into YCbCr in a formula of in which all components, namely R, G, and B, contribute to each of the values for the color components of YCbCr. In view of this, Applicant respectfully submits that the present invention as claimed is not anticipated by Bezraydin.

Applicant has added Claims 35-38. Each of these claims includes specific formulations for the conversions. These formulations are not disclosed in Bezraydin. Therefore, Applicant respectfully submits that these claims are not anticipated by Bezraydin.

Accordingly, Applicant respectfully submits that the rejection under 35 U.S.C. § 102(e) has been overcome by the amendments and the remarks.

Accordingly, Applicants respectfully submit that the objections to the claims and the rejections to the claims have been overcome by the amendments and the remarks and withdrawal of these rejections is respectfully requested. Applicants submit that Claims 1, 2, 4, 6, 8, 12, 14, 15, 17, 19, 21, 25, 27, 29 and 31-34 as amended and Claims 35-38 as added are in condition for allowance and such action is earnestly solicited.

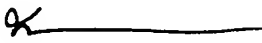
If there are any additional charges, please charge Deposit Account No. 02-2666 for any fee deficiency that may be due.

Respectfully submitted,

BLAKELY SOKOLOFF TAYLOR & ZAFMAN LLP

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12400 Wilshire Blvd., Seventh Floor
Los Angeles, CA 90025-1026
(408) 720-8300



Michael J. Mallie, Reg. No. 36,591